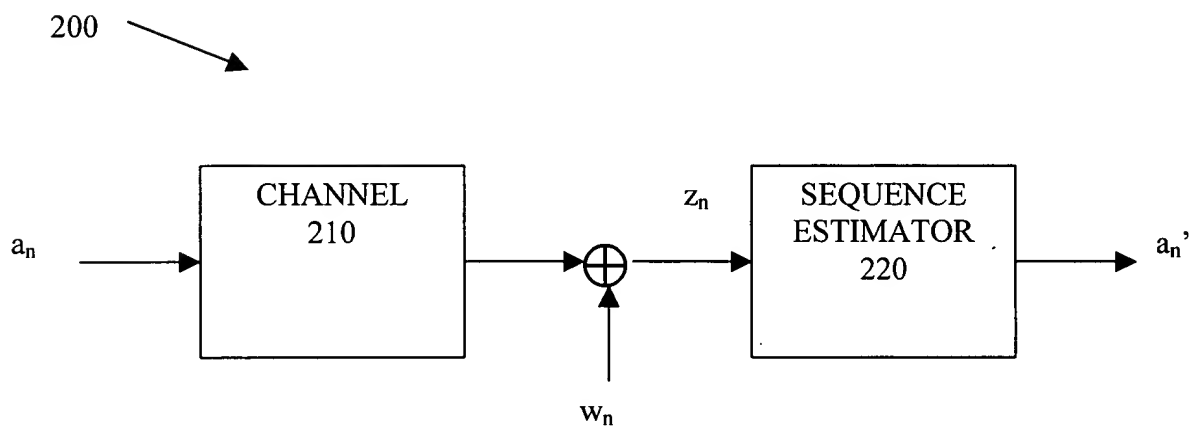
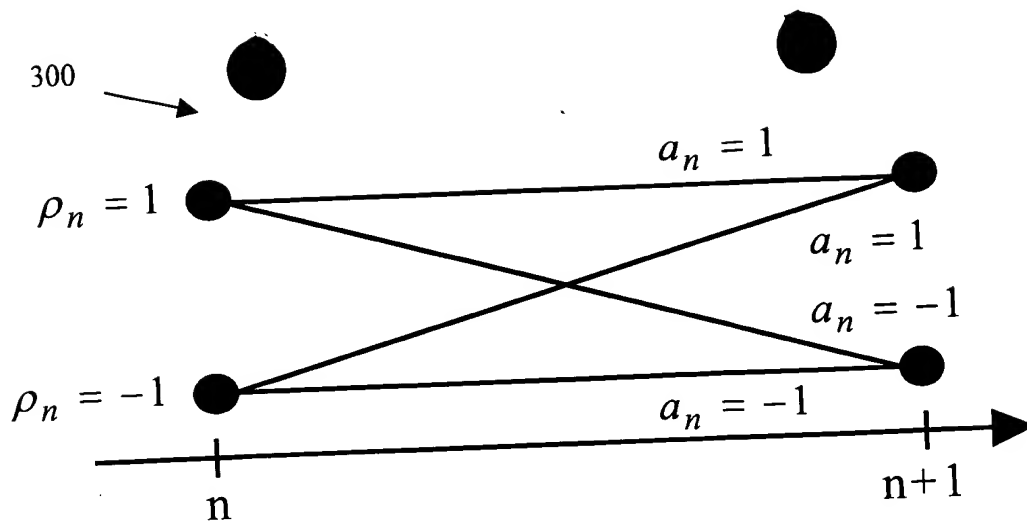


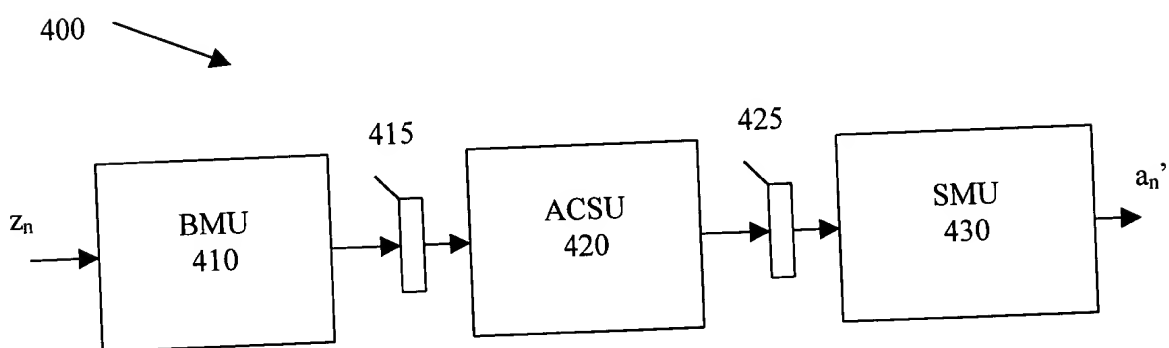
**FIG. 1**



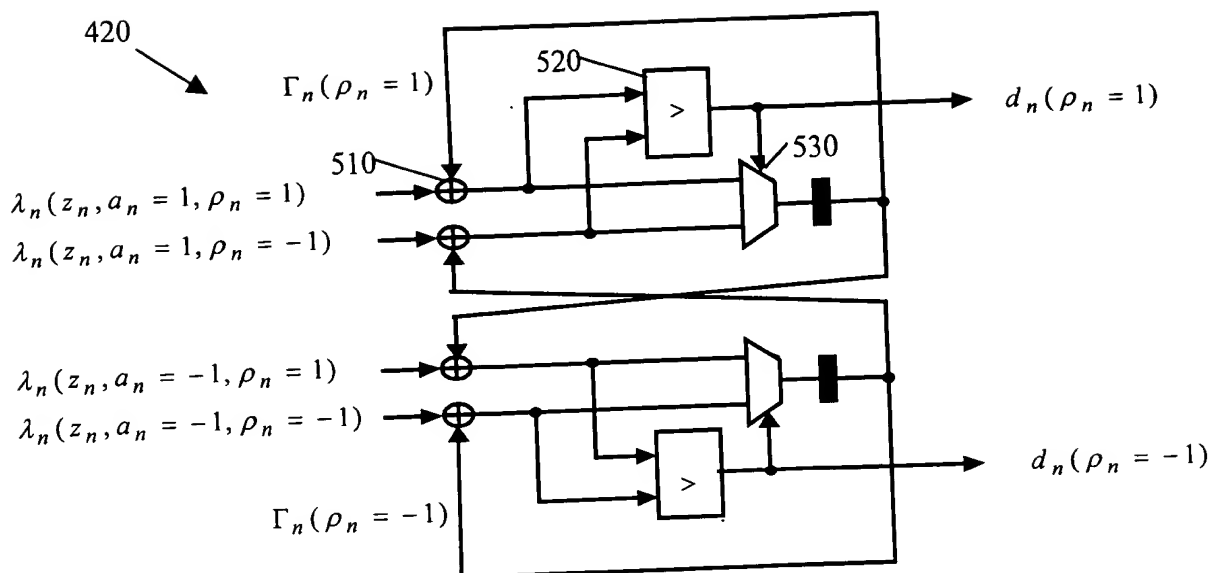
**FIG. 2**



**FIG. 3**



**FIG. 4**



**FIG. 5**

Complexity and Critical Path Analysis Table -- 600

	MLSE 620	RSSE 630
<b>Complexity</b>		
No. of states:	$2^L$	$2^K$
No. of BMs	$2^{L+1}$	$2^{K+1}$
ADDs in DFU:	—	$S \times L$
<b>Critical path</b>	2 ADDs 2-to-1 MUX	$L-K+3$ ADDs 2-to-1 MUX LUT SHIFT

**FIG. 6**

700

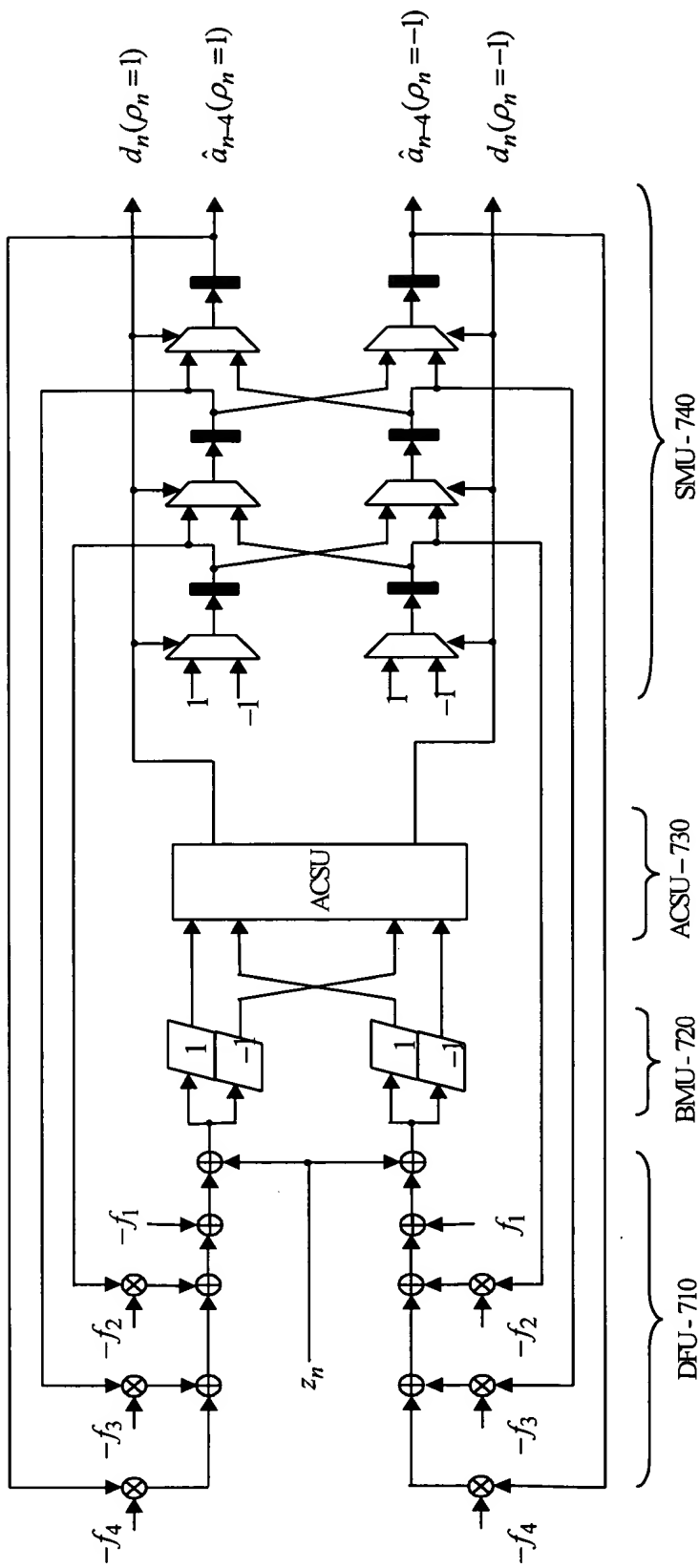


FIG. 7A



FIG. 7B

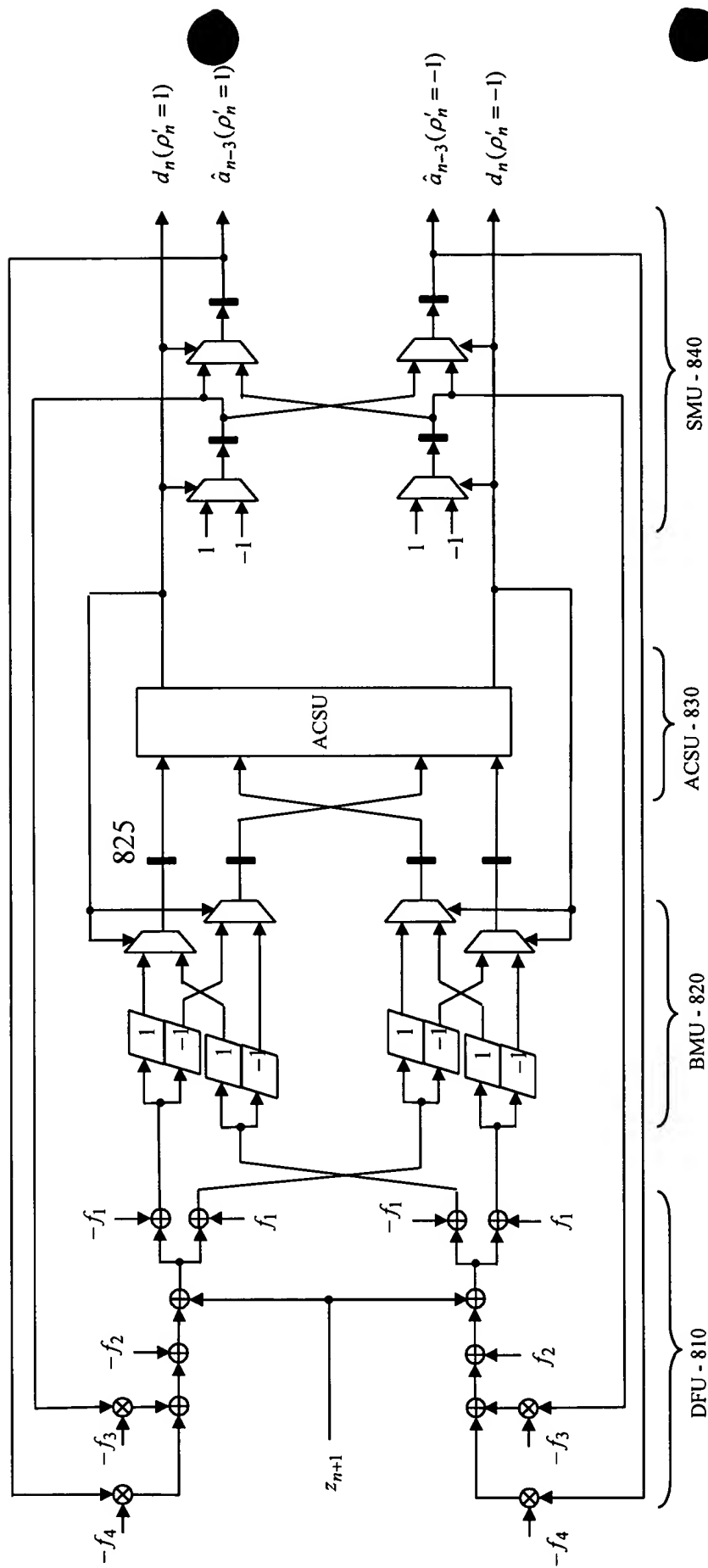


FIG. 8

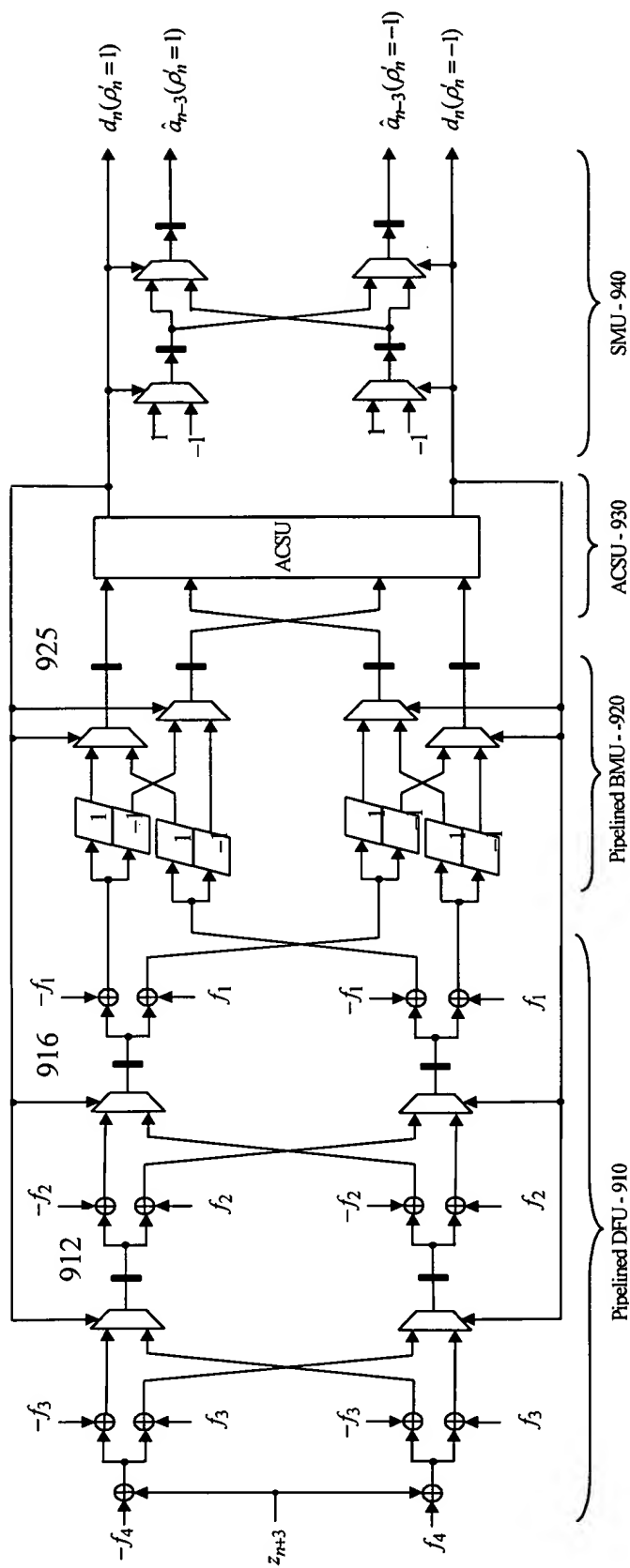


FIG. 9

Complexity and Critical Path Analysis Table of Pipelined RSSE - 1000

	Pipelined RSSE
<b>Complexity</b>	
No. of BMs:	$2^{K+2}$
ADDs in DFU:	$S \times (L - M + 2M) = S \times (L + M)$
<b>Critical path (<math>M=L-K</math>)</b>	2 ADDs 2-to-1 MUX

**FIG. 10**

Complexity and Critical Path Analysis Table of Pipelined RSSE - 1000

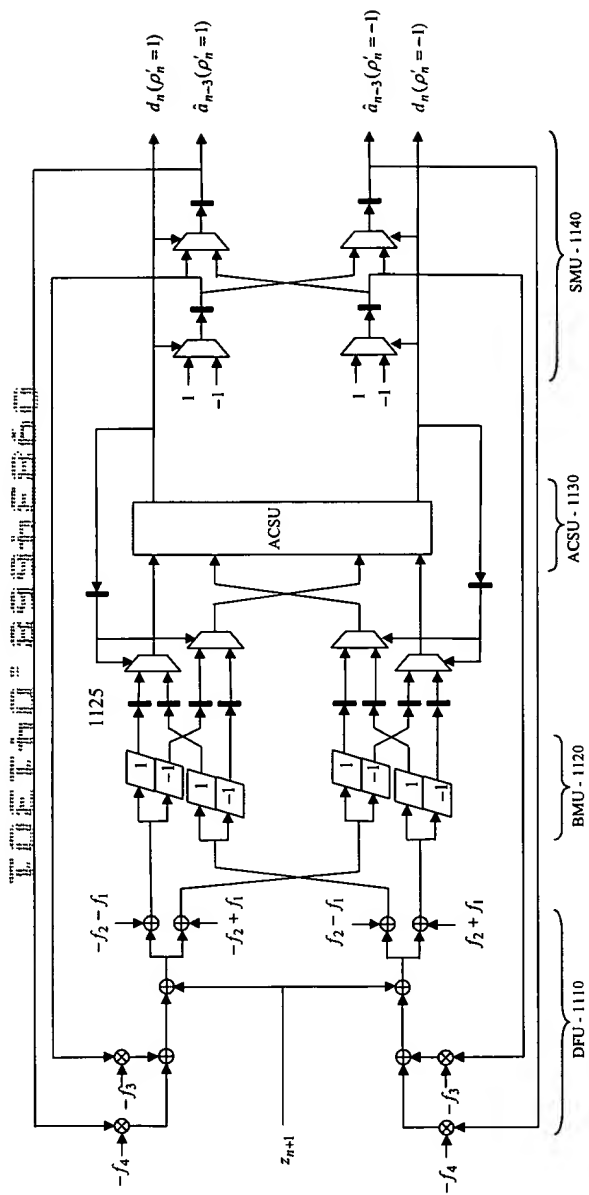


FIG. 11

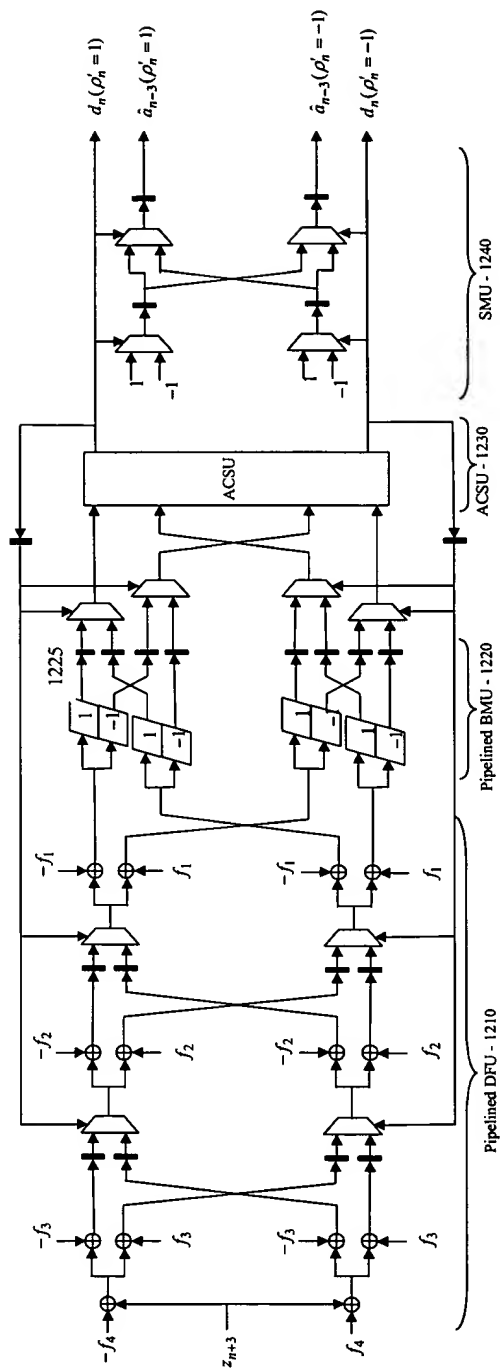


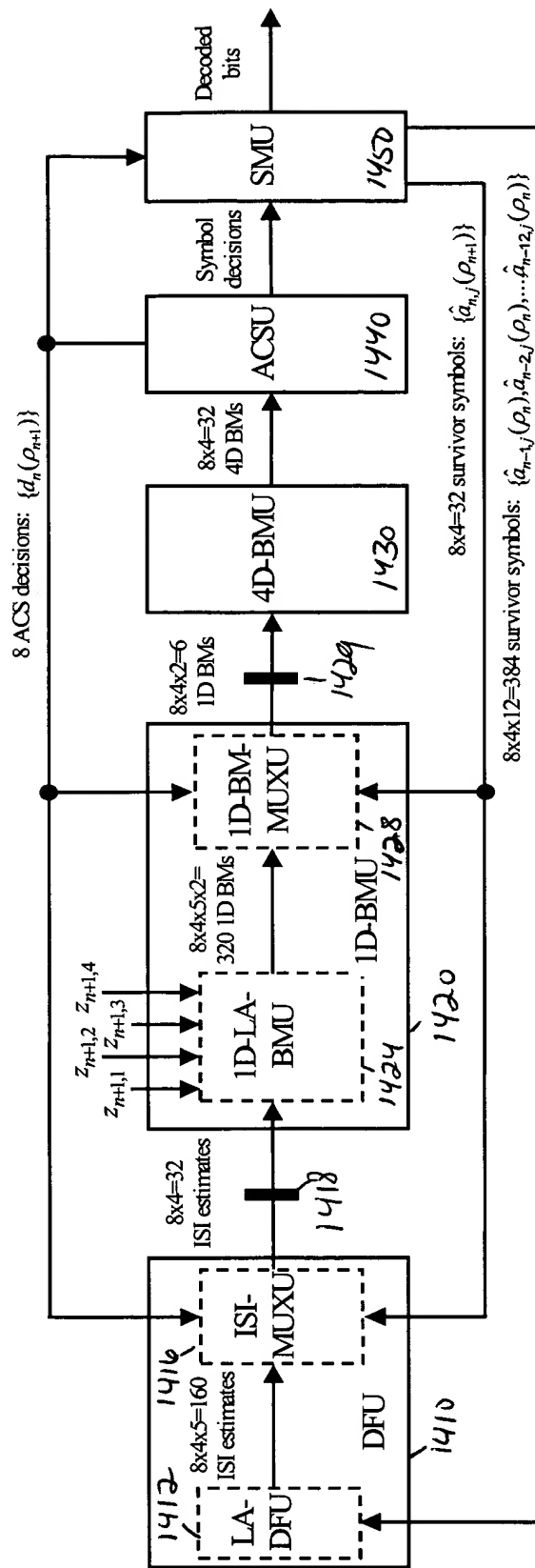
FIG. 12



State  $\rho_n = 0 : S0, S2, S4, S6$   
 State  $\rho_n = 1 : S1, S3, S5, S7$   
 State  $\rho_n = 2 : S2, S0, S6, S4$   
 State  $\rho_n = 3 : S3, S1, S7, S5$   
 State  $\rho_n = 4 : S4, S6, S0, S2$   
 State  $\rho_n = 5 : S5, S7, S1, S3$   
 State  $\rho_n = 6 : S6, S4, S2, S0$   
 State  $\rho_n = 7 : S7, S5, S3, S1$

time  $n \rightarrow n+1$

**FIG. 13**



# FIG. 14

1412

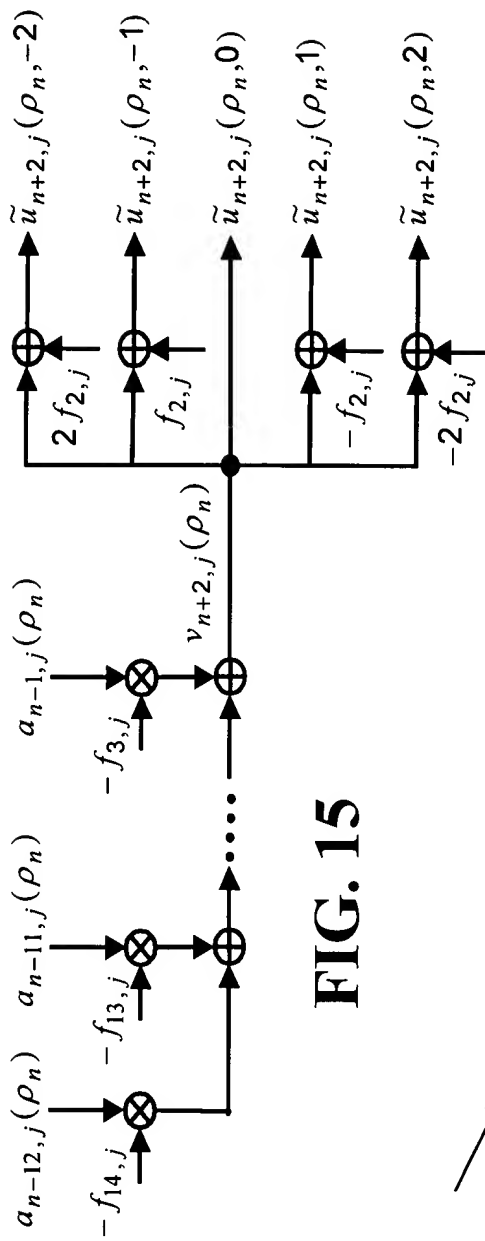


FIG. 15

1416

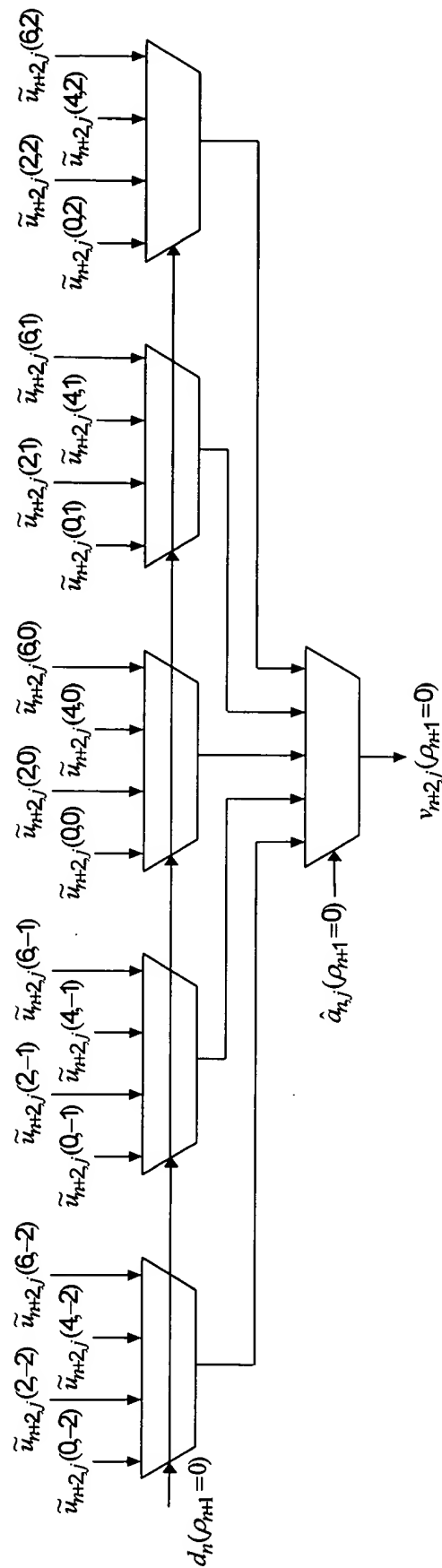


FIG. 16

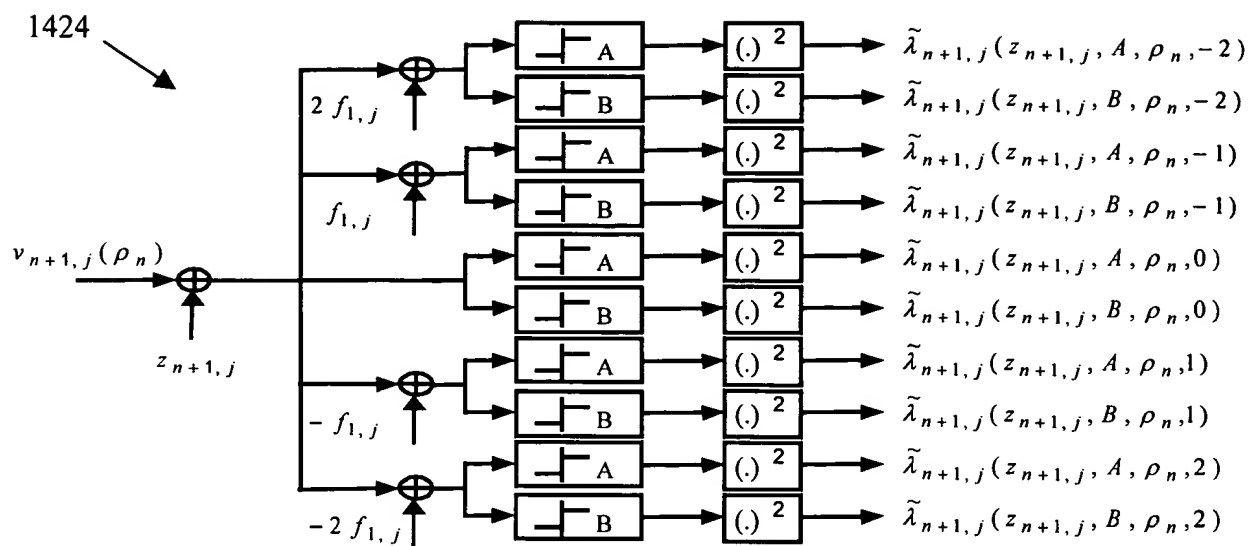


FIG. 17

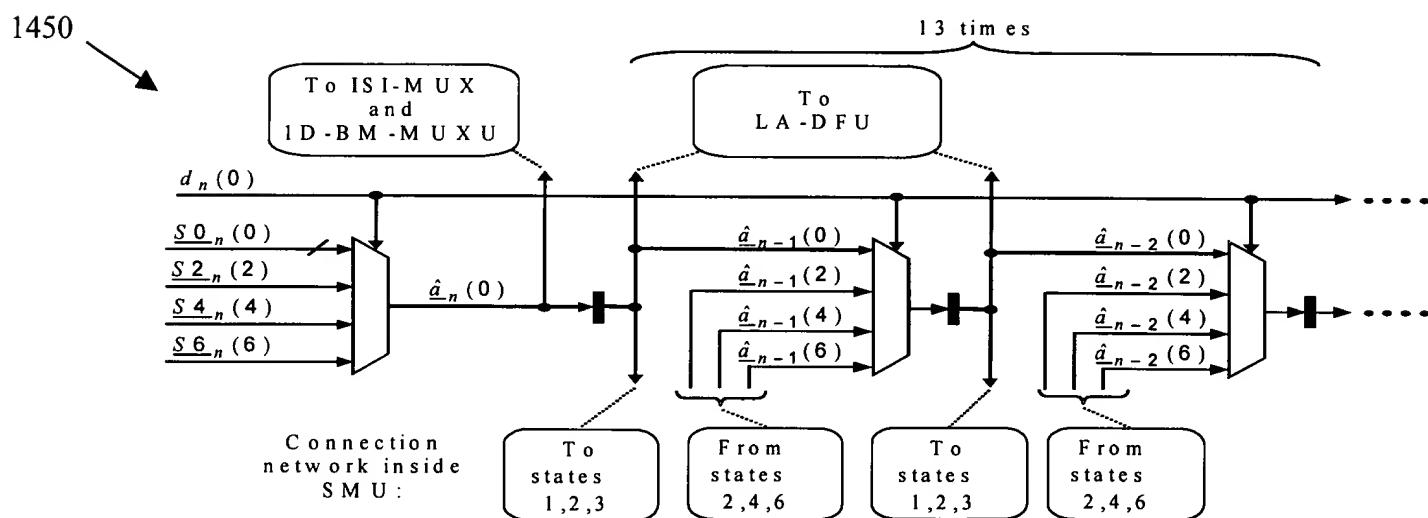


FIG. 18